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Form PTO-1449 (Modified) INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Application No.	10/646,994
	Filing Date	August 21, 2003
	First Named Inventor	Willebrand, Heinz
	Group Art Unit	2633
	Examiner Name	
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U.S. PATENT DOCUMENTS									
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	U.S. PATENT DOCUMENT		NAME OF INVENTOR OR APPLICANT	DATE OF ISSUANCE OR PUBLICATION (MM-DD-YYYY)	CLASS	SUB CLASS	FILING DATE (if appropriate)
			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
HP	AA	X	2002/0149811	A1	Willebrand	10/17/2002			04/16/2001
HP	AB	X	2002/0141020	A1	Doucet et al.	10/03/2002			05/28/2002
HP	AC	X	2002/0122232	A1	Doucet et al.	09/05/2002			01/22/2002
HP	AD	X	2002/0122230	A1	Izadpanah et al.	09/05/2002			03/05/2001
HP	AE	X	2002/0075542	A1	Kumar et al.	06/20/2002			12/17/2002
HP	AF	X	2002/0054413	A1	Shivnan	05/09/2002			09/07/2001
HP	AG	X	2002/0054411	A1	Heminger et al.	05/09/2002			08/27/2001
HP	AH	X	2002/0051269	A1	Margalit et al.	05/02/2002			09/28/2001
HP	AI	X	2002/0048066	A1	Antoniades et al.	04/25/2002			05/15/2001
HP	AJ	X	2002/0028043	A1	Medved et al.	03/07/2002			11/02/2001
HP	AK	X	2002/0027691	A1	Medved et al.	03/07/2002			11/02/2001
HP	AL	X	2002/0005972	A1	Bloom et al.	01/17/2002			05/16/2001
HP	AM	X	60/276,610		Shah et al.				03/16/2001
HP	AN	X	60/256,540		Gupta et al.				12/18/2000
HP	AO	X	6,587,687	B1	Wiedeman	07/01/2003			10/21/1996
HP	AP	X	6,583,904	B1	Mahlab et al.	06/24/2003			10/01/1999
HP	AQ	X	6,509,992	B1	Goodwill	01/21/2003			09/09/1999
HP	AR	X	6,493,121	B1	Althaus	12/10/2002			10/30/2000
HP	AS	X	6,462,847	B2	Willebrand	10/08/2002			03/29/2001
HP	AT	X	6,452,700	B1	Mays, Jr.	09/17/2002			06/19/2001

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HP	AV	X	6,398,425	B2	Williams et al.	06/04/2002			05/09/2001
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HP	AX	X	6,381,055	B1	Javitt et al.	04/30/2002			04/16/1998
HP	AY	X	6,366,723	B1	Medved et al.	04/02/2002			09/14/1999
HP	AZ	X	6,348,986	B1	Doucet et al.	02/19/2002			06/29/1998
HP	BA	X	6,323,980	B1	Bloom	11/27/2001			03/05/1998
HP	BB	X	6,301,037	B1	Fischer et al.	10/09/2001			03/06/1998
HP	BC	X	6,288,813	B1	Kirkpatrick et al.	09/11/2001			03/25/1998
HP	BD	X	6,285,481	B1	Palmer	09/04/2001			09/05/1997
HP	BE	X	6,272,271	B1	Wojnarowski et al.	08/07/2001			04/29/1999
HP	BF	X	6,239,888	B1	Willebrand	05/29/2001			04/24/1998
HP	BG	X	6,141,128		Korevaar et al.	10/31/2000			12/15/1997
HP	BH	X	6,122,084		Britz et al.	09/19/2000			03/03/1998
HP	BI	X	6,115,157		Barnard et al.	09/05/2000			12/24/1997
HP	BJ	X	6,104,513		Bloom	08/15/2000			03/05/1998
HP	BK	X	6,049,593		Acampora	04/11/2000			12/19/1997
HP	BL	X	6,043,918		Bozzay et al.	03/28/2000			12/12/1997
HP	BM	X	6,016,212		Durant et al.	10/18/2000			04/30/1997
HP	BN	X	6,014,236		Flaherty	01/11/2000			02/04/1997

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HP	BQ	X	5,978,118		Flaherty	11/02/1999			02/04/1997
HP	BR	X	5,966,229		Dodley et al.	10/12/1999			06/18/1997
HP	BS	X	5,949,564		Wake	09/07/1999			04/26/1993
HP	BT	X	5,949,563		Takada	09/07/1999			07/18/1997
HP	BU	X	5,946,120		Chen	08/31/1999			05/30/1997
HP	BV	X	5,936,578		Driessen et al.	08/10/1999			12/29/1995
HP	BW	X	5,917,629		Hortensius et al.	06/29/1999			10/29/1990
HP	BX	X	5,883,730		Coult et al.	03/16/1999			12/29/1995
HP	BY	X	5,859,725		Sugiya et al.	01/12/1999			08/22/1997
HP	BZ	X	5,844,705		Rutledge	12/01/1998			02/13/1997
HP	CA	X	5,838,470		Radehaus et al.	11/17/1998			06/04/1997
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HP	CF	X	5,777,768		Korevaar	07/07/1998			08/29/1996
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HP	CI	X	5,710,652		Bloom et al.	01/20/1998			02/22/1994

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HP	CJ	X	5,661,582		Kintis et al.	08/26/1997			10/26/1995
HP	CK	X	5,659,413		Carlson	08/19/1997			02/28/1995
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HP	CM	X	5,596,661		Henry et al.	01/21/1997			12/28/1994
HP	CN	X	5,587,830		Chraplyvy et al.	12/24/1996			05/28/1993
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HP	CP	X	5,574,589		Feuer et al.	11/12/1996			01/09/1995
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HP	CS	X	5,475,520		Wissinger	12/12/1995			06/22/1994
HP	CT	X	5,457,562		Tremblay	10/10/1995			05/20/1994
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HP	CY	X	5,416,861		Koh et al.	05/16/1995			04/29/1994
HP	CZ	X	5,416,627		Wilmoth	05/16/1995			04/24/1992
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HP	DG	X	5,301,054		Huber et al.	04/04/1994			01/14/1993
HP	DH	X	5,280,184		Jokerst et al.	01/18/1994			04/08/1992
HP	DI	X	5,247,381		Olmstead et al.	09/21/1993			05/20/1992
HP	DJ	X	5,227,906		Tokumitsu	07/13/1993			03/08/1990
HP	DK	X	5,218,467		Ross et al.	06/08/1993			12/28/1990
HP	DL	X	5,210,631		Huber et al.	05/11/1993			12/22/1989
HP	DM	X	5,185,814		Healey	02/09/1993			02/20/1992
HP	DN	X	5,142,400		Solinsky	08/25/1992			05/28/1991
HP	DO	X	5,083,874		Aida et al.	01/28/1992			04/10/1990
HP	DP	X	5,068,916		Harrison et al.	11/26/1991			10/29/1990
HP	DQ	X	5,060,303		Wilmoth	10/22/1991			09/06/1988
HP	DR	X	5,034,997		Iwasaki	07/23/1991			04/18/1989
HP	DS	X	5,005,937		Aida et al.	04/09/1991			04/10/1990
HP	DT	X	4,916,460		Powell	04/10/1990			09/29/1988
HP	DU	X	4,807,222		Amitay	02/21/1989			08/25/1986
HP	DV	X	4,689,482		Horikawa et al.	08/25/1987			06/13/1985
HP	DW	X	4,330,870		Arends	05/18/1982			09/05/1980

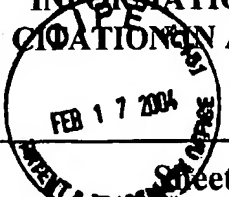
Form PTO-1449 (Modified) INFORMATION DISCLOSURE CITATION IN AN APPLICATION FEB 17 2004 U.S. PATENT & TRADEMARK OFFICE	Application No.	10/646,994
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FOREIGN PATENT DOCUMENTS										
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	FOREIGN PATENT DOCUMENT			DATE OF PUBLICATION (MM-DD-YYYY)	CLASS	SUB CLASS	TRANSLATION	
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HP	EB	X	WO	98/32250		07/23/1998	—			
HP	EC	X	EP	0 378 148	B1	04/10/1996	—			
HP	ED	X	DE	44 33 896	C1	11/09/1995	—		X	
HP	EE	X	GB	2 257 321	A	01/06/1993	—			
HP	EF	X	EP	0 513 993	A2	11/19/1992	—			
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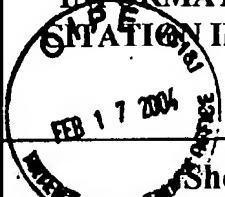
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HP	EI	X	HUNGARIAN PATENT OFFICE, Search Report for Hungarian National Phase of PCT/US00/35198, which claims priority to U.S. App. 09/482,782; dated 15 January 2003; pp. 1-3.
HP	EJ	X	PCT INTERNATIONAL SEARCH AUTHORITY; "Notification of Transmittal of the International Search Report"; "PCT International Search Report" for International Application No. PCT/US02/10075 which claims priority to U.S. Application No. 09/835,866; mailed 30 July 2002; (4 pages).

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HP	EK	X	PCT INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY; "Notification of Transmittal of the International Preliminary Examination Report"; "PCT International Preliminary Examination Report" for International Application No. PCT/US00/35198 which corresponds to U.S. Application No. 09/482,782; mailed 29 April 2002; (13 pages).
HP	EL	X	EUROPEAN PATENT OFFICE; PCT International Preliminary Examination Report issued in the counterpart PCT application for U.S. Application No. 09/482,782; date of mailing 29 April 2002; (13 pages).
HP	EM	X	PCT INTERNATIONAL SEARCH AUTHORITY; "Notification of Transmittal of the International Search Report"; "PCT International Search Report" for International Application No. PCT/US00/35198 which corresponds to U.S. Application No. 09/482,782; mailed 06 February 2002; (7 pages).
HP	EN	X	NASA JET PROPULSION LABORATORY; "Multiple-Beam Transmission for Optical Communication"; http://www.nasatech.com/Briefs/Nov98/NPO20384.html ; October 26, 2001; pp. 1-2.
HP	EO	X	G. NYKOLAK et al.; "A 40 Gb/s DWDM Free Space Optical Transmission Link Over 4.4 km"; In Free-Space Laser Communication Technologies XII; <i>Proceedings of SPIE</i> ; Vol. 3932; 2000; pp. 16-20.
HP	EP	X	P. F. SZAJOWSKI et al.; "Key Elements of High-Speed WDM Terrestrial Free-Space Optical Communications Systems"; In Free-Space Laser Communication Technologies XII; <i>Proceedings of SPIE</i> ; Vol. 3932; 2000; pp. 2-14.
HP	EQ	X	G. NYKOLAK et al.; "Update on 4x2.5 Gb/s, 4.4km free-space optical communications link: availability and scintillation performance; Part of the SPIE Conference on Optical Wireless Communications II; <i>SPIE</i> ; Vol. 3850; September 1999; pp. 11-19.
HP	ER	X	P. F. SZAJOWSKI et al.; "High Power Optical Amplifiers Enable 1550 nm Terrestrial Free-Space Optical Data-Links Operating @ WDM 2.5 Gb/s Data Rates"; Part of the SPIE Conference on Optical Wireless Communications II; <i>SPIE</i> ; Vol. 3850; September 1999; pp. 2-10.
HP	ES	X	P. S. GUILFOYLE et al.; "Free-Space Interconnects for High-Performance Optoelectronic Switching"; <i>Computer, IEEE</i> ; February 1998; pp. 66-75.

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HP	ET	X	S. HOLLUNG et al.; A Bi-Directional Quasi-Optical Lens Amplifier; <i>IEEE Transactions on Microwave Theory and Techniques</i> ; Vol. 45, No. 12; December 1997; pp. 2352-2357.
HP	EU	X	I. I. KIM et al.; Scintillation Reduction Using Multiple Transmitters"; <i>Society of Photo-Optical Instrumentation Engineers</i> ; Vol. 2990; 1997; pp. 102-113.
HP	EV	X	A. LOURI et al.; "Feasibility Study for a Scalable Optical Interconnection Network for Massively Parallel Processing Systems"; <i>Applied Optics</i> ; Vol. 35; No. 8; March 10, 1996; pp. 1296-1308.
HP	EW	X	SCHUSTER et al., "Optomechanical Design of STRV-2 Lasercom Transceiver Using Novel Azimuth/slant gimbal"; <i>SPIE - the International Society for Optical Engineering</i> ; Society of Photo-Optical Instrumentation Engineers, Washington, USA; Vol. 2699; January 30-31, 1996, pgs. 227-239.
HP	EX	X	WILSON et al., "Preliminary Results of the Ground/Orbiter Lasercomm Demonstration Experiment Between Table Mountain and the ETS-VI Satellite"; <i>SPIE - the International Society for Optical Engineering</i> ; Vol. 2699; Society of Photo-Optical Instrumentation Engineers, Washington, USA; 1996; pp. 121-132.
HP	EY	X	A. BELMONTE et al.; "Performance of a Multiple-Aperture Optical System"; <i>Society of Photo-Optical Instrumentation Engineer</i> ; Vol. 2699; 1996; pp. 316-326.
HP	EZ	X	K. KIMURA et al.; "Global Satellite communication network using double-layered inclined orbit constellation with optical inter-satellite links"; <i>ATR Optical and Radio Communications Research Laboratories, Kyoto, Japan; SPIE</i> ; Vol. 2699; 1996; pp. 12-23.
HP	FA	X	C. M. STICKLEY et al.; "Demonstration of an Adaptive, Coherent-Combining Laser Radar Receiver"; <i>18th International Laser Radar Conference</i> ; 1996; pp. 247-250.
HP	FB	X	KUBE; "Renaissance Eines Alten Konzepts"; <i>Nachrichten Elektronik und Telematik</i> ; Vol. 49; No. 5; May 1995; pp. 15, 16 and 18. (English translation provided.)
HP	FC	X	TELECONNECT GmbH; "Optische Freiraum-Übertragungssysteme"; <i>Teleconnect Verbindungen in die Zukunft</i> ; Produktinformation; April 1995; pp. 1-16. (English translation provided.)

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HP	FD	X	CBL - Communication by Light, Gesellschaft für optische Kommunikationssysteme mbH; "Optical Links, Network connection directly through the atmosphere"; March 1995; pp. 1-8.
HP	FE	X	K. KIMURA et al.; "Satellite constellation of low earth orbit (LEO) satellite global communication network using optical inter-satellite links"; ATR Optical and Radio Communications Research Laboratories, Kyoto, Japan; <i>SPIE</i> ; Vol. 2381; 1995; pp. 48-59.
HP	FF	X	E. KOREVAAR et al.; "Design of satellite terminal for BMDO lasercom technology demonstration"; <i>Society of Photo-Optical Instrumentation Engineers</i> ; Vol. 2381; February 7-8, 1995, pp. 59-71.
HP	FG	X	LIGHTPOINTE COMMUNICATIONS, INC.; "Complex Networking Connectivity Example: Allianz Insurance Germany"; 1995; p. 1.
HP	FH	X	A. S. ACAMPORA et al.; "The Scalable Lightwave Network"; <i>IEEE Communications Magazine</i> ; December 1994; pp. 36-42.
HP	FI	X	G. TURINSKY; "Kabellose Übertragung von Digital-Audio- und Videosignalen"; Praxis; <i>RFE</i> ; March 1994; pp. 33-34. (English translation provided.)
HP	FJ	X	K. H. KUDIELKA et al.; "Experimental verification of an adaptive optical multi-aperture receive antenna for laser space communications"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2123; 1994; pp. 478-486.
HP	FK	X	C. A. BRACKETT et al.; "A Scalable Multiwavelength Multihop Optical Network: A Proposal for Research on All-Optical Networks"; <i>Journal of Lightwave Technology</i> , Vol. 11, No. 5-6; May-June 1993; pp. 736-753.
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	Filing Date	August 21, 2003
	First Named Inventor	Willebrand, Heinz
	Group Art Unit	2633
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OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS			
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and-or country where published.
HP	FO	X	J. H. CHURNSIDE: "Aperture Averaging of Optical Scintillations in the Turbulent Atmosphere"; <i>Applied Optics</i> , Vol. 30, No. 15; May 20, 1991; pp. 1982-1994.
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Examiner Signature	<i>Nanaphan</i>	Date Considered	08/20/04
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